

Grade 10 Mathematics Reference Sheet

Use the information below as needed to answer questions on the mathematics test.

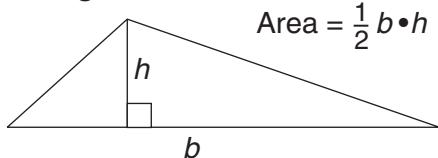
Standard Units

5280 feet = 1 mile
8 ounces = 1 cup
2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon
16 ounces = 1 pound
2000 pounds = 1 ton

Metric Units

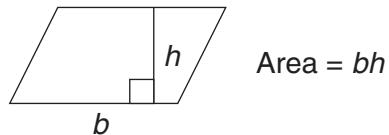
1000 millimeters = 1 meter
100 centimeters = 1 meter
1000 meters = 1 kilometer
1000 liters = 1 kiloliter
1000 grams = 1 kilogram

Triangle



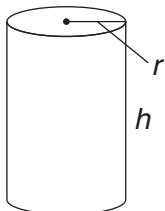
$$\text{Area} = \frac{1}{2} b \cdot h$$

Parallelogram



$$\text{Area} = bh$$

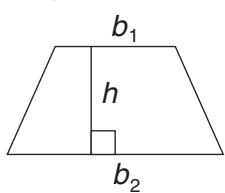
Cylinder



$$\text{Volume} = \pi r^2 h$$

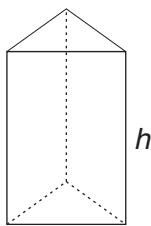
$$\text{Surface Area} = 2\pi r^2 + 2\pi rh$$

Trapezoid



$$\text{Area} = \frac{1}{2} h(b_1 + b_2)$$

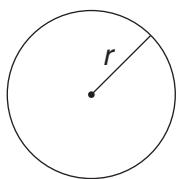
Prism



$$\text{Volume} = Bh$$

where B = area of base

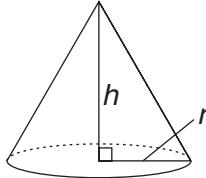
Circle



$$\text{Area} = \pi r^2$$

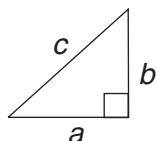
$$\text{Circumference} = 2\pi r$$

Cone



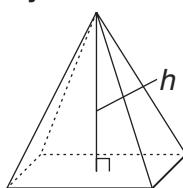
$$\text{Volume} = \frac{1}{3} \pi r^2 h$$

Pythagorean Theorem



$$a^2 + b^2 = c^2$$

Pyramid



$$\text{Volume} = \frac{1}{3} Bh$$

$$\text{where } B = \text{area of base}$$

Right Triangle Ratios

